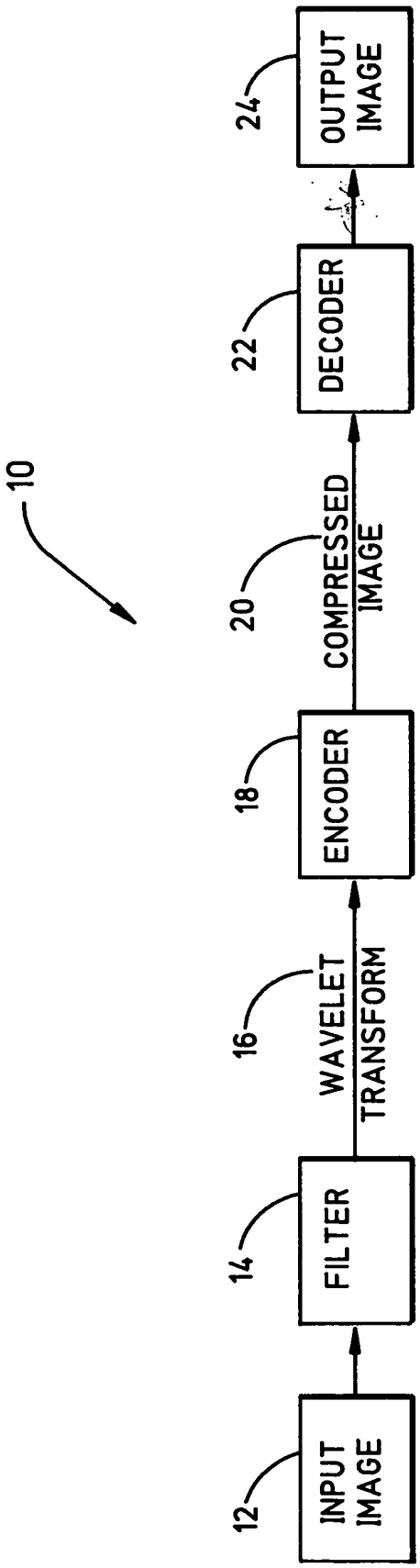
10
12
INPUT IMAGE
14
FILTER
16
WAVELET TRANSFORM
18
ENCODER
20
COMPRESSED IMAGE
22
DECODER
24
OUTPUT IMAGE

FIG. 1

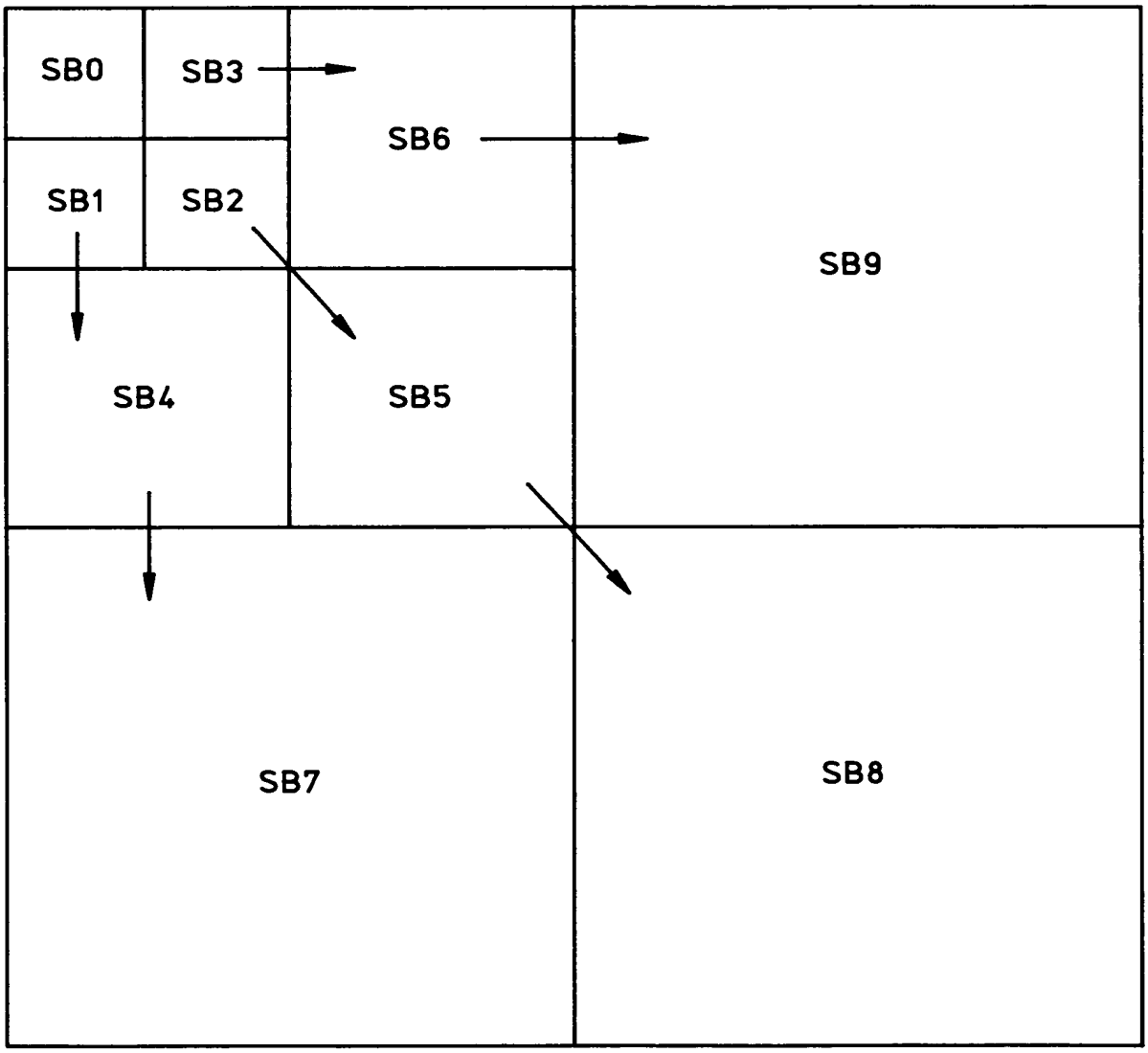

FIG. 2

$C_{i,j}$	1	2	3	4	5	6	7	8
1	10	0	0	6	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	3	0	0	0	0	0	0
4	0	1	-9	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0

FIG. 3

0074650

DECIMAL	BINARY				
	SGN	b^3	b^2	b^1	b^0
$C_{1,1}=10$		1	0	1	0
$C_{1,4}=6$		0	1	1	0
$C_{3,2}=3$		0	0	1	1
$C_{4,2}=1$		0	0	0	1
$C_{4,3}=-9$	-	1	0	0	1

FIG. 4

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$S^3(C_{i,j})$	1	2	3	4	5	6	7	8
1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	1	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0

FIG. 5A

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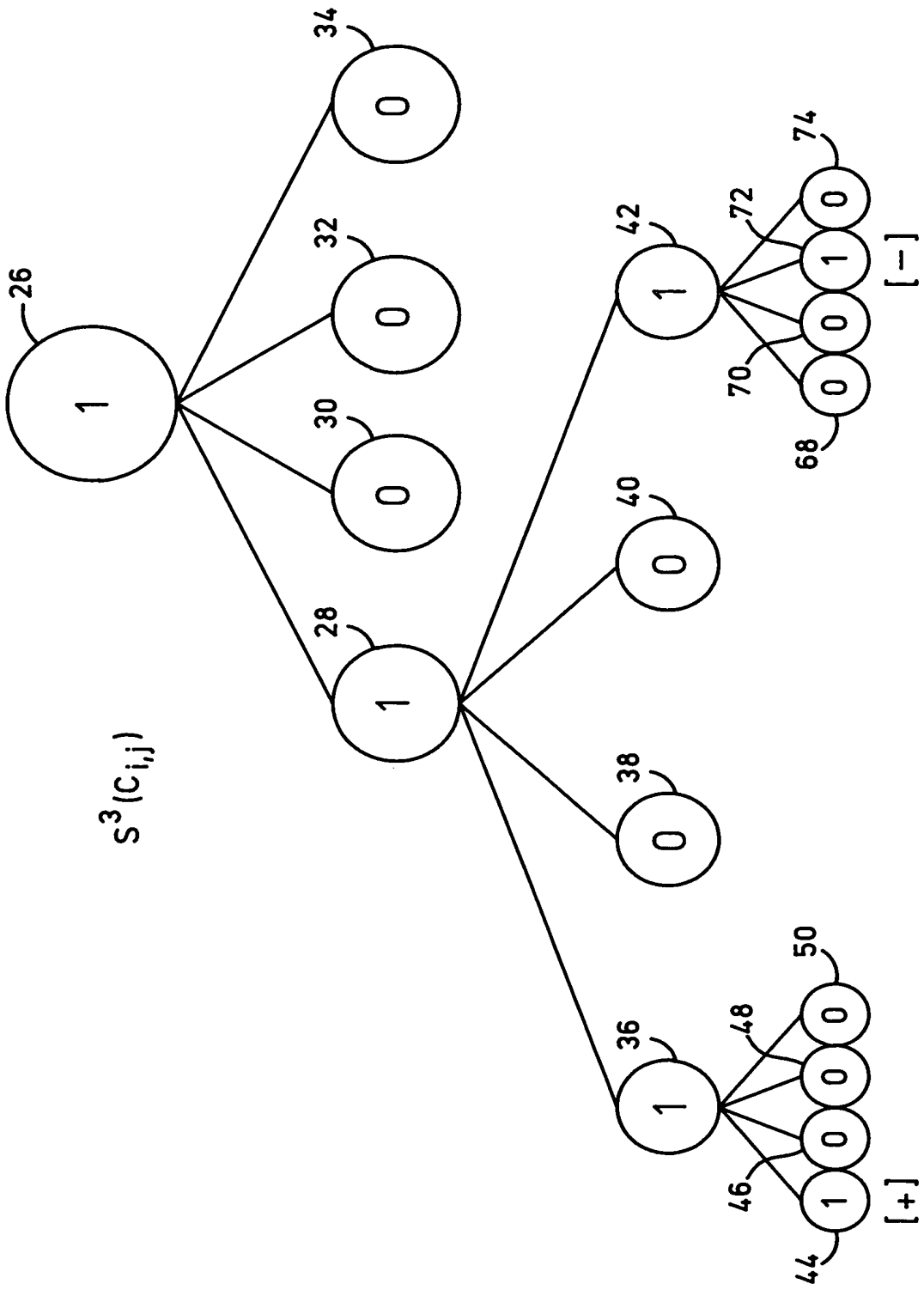
$S^3(C_{i,j})$
26
1
34
0
32
0
30
0
28
1
42
1
72
74
0
1
0
70
0
0
68
0
[-]
40
0
38
0
36
1
48
50
0
0
0
46
1
0
44
[+]

FIG. 5B

0012E0 BT6TE560

$\Delta_3 \longrightarrow$ 1 1 1 1 [0] 0 0 0 0 0 1 0 0 1 [1] 0 0 0 0

$R_3 \longrightarrow$ n/a

FIG. 5C

$S^2(C_{i,j})$

	1	2	3	4	5	6	7	8
1	1	0	0	1	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	1	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0

FIG. 6A

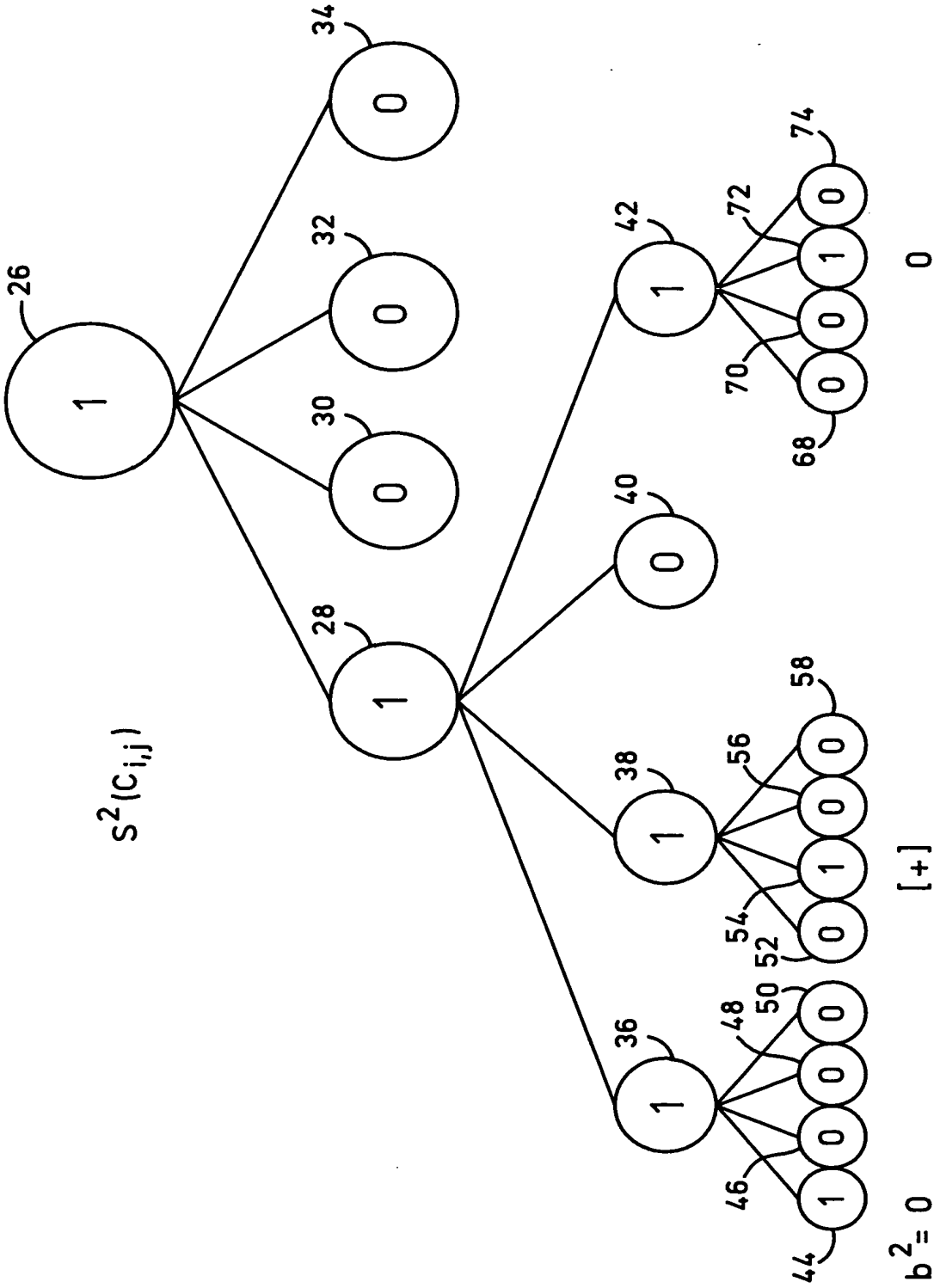
$S^2(C_{i,j})$
26
1
28
1
30
0
32
0
34
0
36
1
38
1
40
0
42
1
44
1
0
0
0
46
48
50
52
0
54
1
0
56
58
0
0
68
0
70
72
1
0
74
0
$b^2 = 0$
[+]

FIG. 6B

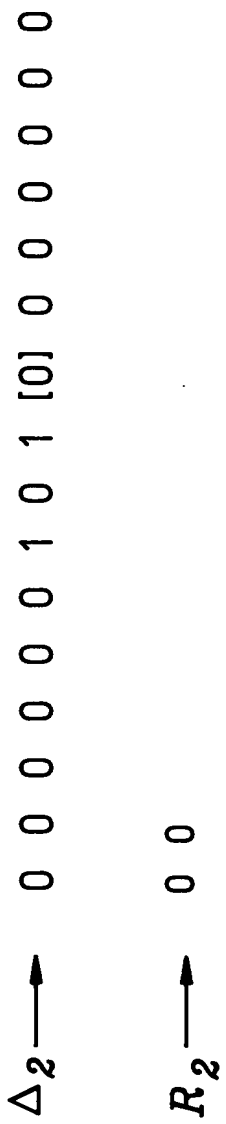

FIG. 6C

$S^1(C_{i,j})$	1	2	3	4	5	6	7	8
1	1	0	0	1	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	1	0	0	0	0	0	0
4	0	0	1	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0

FIG. 7A

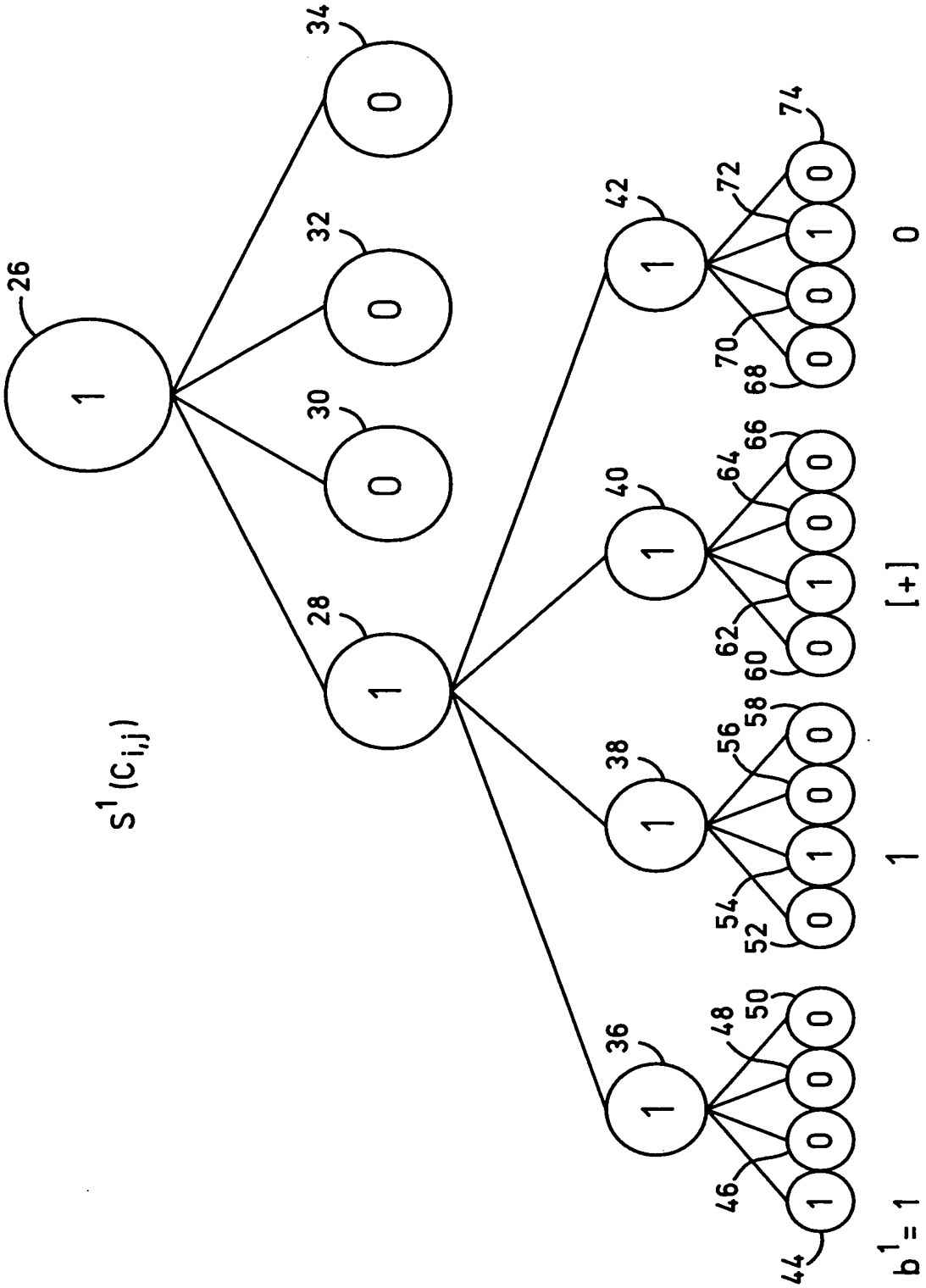
$S^1(C_{i,j})$
26
1
28
1
30
0
32
0
34
0
36
1
38
1
40
1
42
1
44
1
46
0
48
0
50
0
52
0
54
1
56
0
58
0
60
0
62
1
64
0
66
0
68
0
70
0
72
1
74
0
$b^1 = 1$
1
[+]
0

FIG. 7B

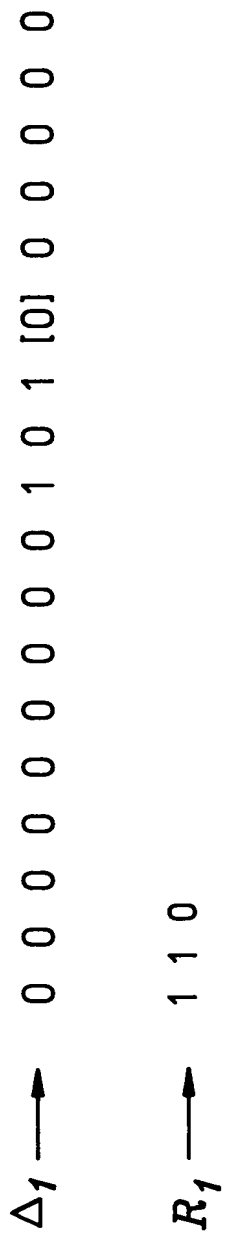

FIG. 7C

0074250 "6T0T25D0

$s^0(c_{i,j})$	1	2	3	4	5	6	7	8
1	1	0	0	1	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	1	0	0	0	0	0	0
4	0	1	1	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0

FIG. 8A

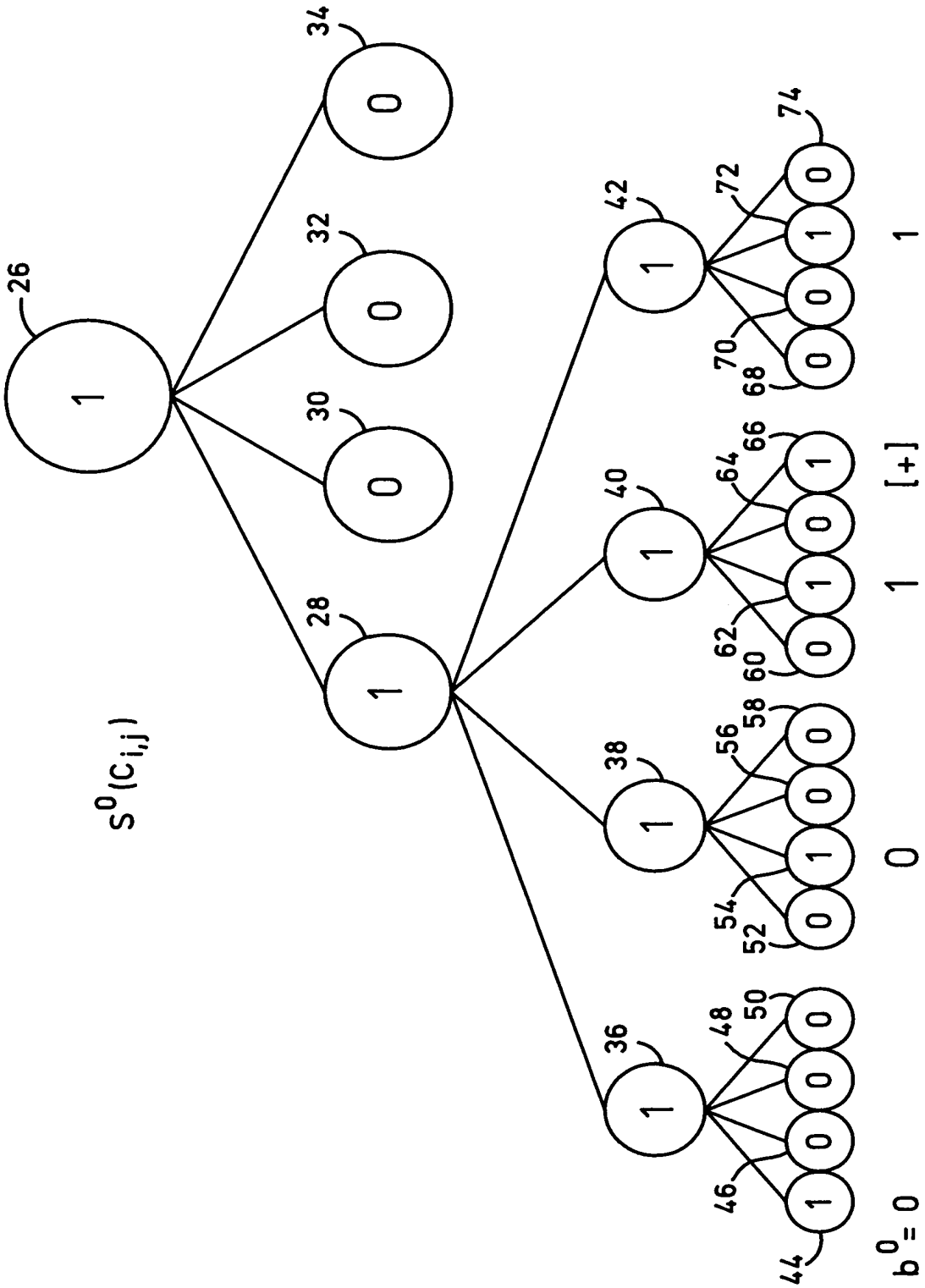
$S^0(C_{i,j})$
26
1
28
1
30
0
32
0
34
0
36
1
38
1
40
1
42
1
44
1
46
0
48
0
50
0
52
0
54
1
56
0
58
0
60
0
62
1
64
0
66
1
68
0
70
0
72
1
74
0
$b^0 = 0$
0
1
1
[+]

FIG. 8B

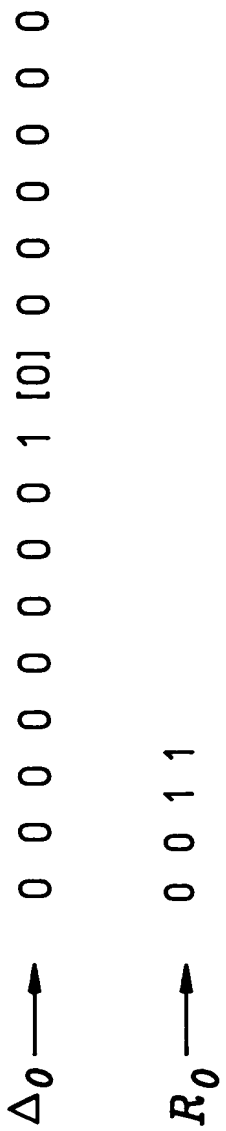

FIG. 8C

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